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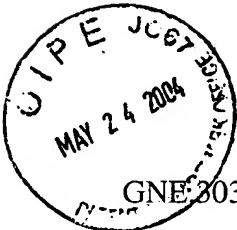
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GNE3030R1C8

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Desnoyers, et al.
Appl. No. : 10/036,041
Filed : December 26, 2001
For : NOVEL NUCLEIC ACIDS
ENCODING PEPTIDES THAT
INDUCE CHONDROCYTE
REDIFFERENTIATION
Examiner : Jiang, Dong
Group Art Unit : 1646

DECLARATION OF LUC DESNOYERS AND WILLIAM I. WOOD
UNDER 37 CFR §1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

We, Luc Desnoyers and William I. Wood, declare and state as follows:

1. We are the inventors of the subject matter that is presently claimed in the above-captioned patent application.
2. During the time period in which all of the events and activities described herein occurred, we were employed by Genentech, Inc., the assignee of the above-captioned application.
3. All of the events and activities described herein were performed by us personally, or under our direction, as part of our duties as employees of Genentech, Inc.
4. The invention claimed in the above-captioned patent application was conceived prior to April 20, 1999 and diligently reduced to practice thereafter in the U.S. as described below.
5. Prior to April 20, 1999, we conceived of the nucleic acid sequences claimed in the above-captioned patent application. This is demonstrated by the attached sequence printout (Exhibit A), which was generated prior to April 20, 1999, and which shows the complete sequence of the nucleic acid having the sequence of SEQ ID NO:1. The attached printout also shows the complete sequence of the polypeptide which has the sequence of SEQ ID NO:2. As evidenced by the sequence printout, we were in possession of the complete nucleic acid sequence prior to April 20, 1999.
6. The date deleted from page 1 of Exhibit A is a date prior to April 20, 1999, and was redacted pursuant to M.P.E.P. § 715.07. The redacted date is the date when the data were generated; the date the report was printed, April 16, 2004, remains on the report.

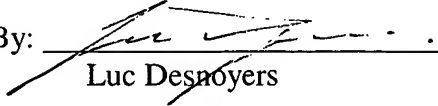
Appl. No. : 10/036,041
Filed : December 26, 2001

7. After initially conceiving the nucleic acid having the sequence of SEQ ID NO:1 prior to April 20, 1999, we diligently reduced the claimed subject matter to practice by working to express and purify the encoded polypeptide and to run it systematically through many assays. The cDNA was deposited with the American Type Culture Collection (ATCC) on January 12, 1999 and assigned ATCC no. 203581. The protein of interest was assigned a "protein inventory number" (e.g., PIN1308 and PIN1308-1). As set forth in the enclosed Exhibit B, the polypeptide was expressed in *E. coli* - PUR1009 (see page 2) on November 16, 1998; in *Baculovirus* - PUR1039 (see page 3) on November 23, 1998; and in mammalian cells (see page 4) on February 17, 1999. Furthermore, various constructs with poly-His or IgG tags were made from the time of first cloning and construction of these was followed by expression and purification of the encoded protein during the time period of prior to April 20, 1999 through March 13, 2003. For example, Exhibit C shows July 13, 1999 as the date of purification of a polypeptide having the sequence of SEQ ID NO:2. PIN1308 and/or PIN1308-1 were distributed to various scientists for multiple cell-based assays and/or quality confirmation tests from August 20, 1999 through January 22, 2001.

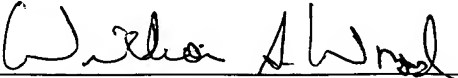
8. Exhibits D and E list the assays performed on the purified protein. Assay ASY110, called "Chondrocyte Re-differentiation Assay" was completed on November 10, 1999 for PIN1308-1, which is a polypeptide encoded by a nucleic acid having the sequence of SEQ ID NO:1. PIN1308-1 was delivered to Luc Desnoyers for one of the assay runs on October 22, 1999; testing was completed on November 10, 1999. Exhibit E is an assay result list that shows positive results for the assay completed on November 10, 1999, thereby confirming the ability of the encoded polypeptide to induce chondrocyte redifferentiation. Thus, actual reduction to practice occurred at least by November 10, 1999.

9. After reducing the invention to practice, we worked with the Genentech, Inc. patent department to prepare a non-provisional patent application, which included the sequence of SEQ ID NO:2, as well as the data showing the ability to induce chondrocyte redifferentiation. That application was filed on March 1, 2000.

10. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

By: 
Luc Desnoyers

Date: 05/17/2004

By: 
William I. Wood

Date: 5/17/04

Appl. No. : **10/036,041**
Filed : **December 26, 2001**

EXHIBIT A

(16 pages; pages 4-19)

EXHIBIT A—PAGE 1

>Friday, April 16, 2004
>DNA44686 [Full]
>564 Sites [All Sites]
>
>Sequence confirmed by phrap.

[DNA44686, sheldens

```

rmaI
sau3AI kaeI
mboI/ndeII[dam-]
dpmI-[dam-]
dpmI'(dam+)
alwI(dam-) sau3AI
nlaIV xbaI mboI/nde-I[dam-]
haeIII/palI b'fai dpmII[dam-]
mwoI haeIII/palI b'fai dpmII[dam-]
bglII(M.haeIII-) hpy:88III taqI
tfil apoI sfil eaeI bstVI/xhoII dpmI(dam+)
hinfI(M.taqI-) cfrI bamHI(M.mspI-) mnlI
taqI(M.claI-) haeIII/palI alwI(dam-) alwI(dam-)
cla-/bsp106 eaeI bsrI mspI(M.bamHI-)(M.haeIII-) taqI
bspDI(dam-) cfrI tepRI hpaII mnlI bstVI/xhoII mnlI drdI aflIII bssKI bsa'JI
bsgl bsaJI bspDI(dam-) TCGGCGCACAC TGGCCGGAT CTTCTGAGAT CCTCGACCT CGACCCAGC GTCCGGGCAT CTGCCCGAGG
1 CAACTGCACC TCGCTCTA- CGATTCGAT TCGGCGCACAC TGGCCGGAT CTTCTGAGAT CCTCGACCT CGACCCAGC GTCCGGGCAT CTGCCCGAGG
STTGACGTGG AGCCAGATA GCTAAGCTTA AGCCGGTGTG ACCGGCCTAG GAGATCTCTA GGGAGCTGA GAGGCGCTCC
insert starts here
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GSeqEdit, DNA44686 [Full], page 1

GSeqEdit, DNA44686 [Full], page 2

EXHIBIT A—PAGE 3

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mwol
  bgli[M.haeIII-]
  sau96I[M.haeIII-]
  sau96I[M.haeIII-]
  pspOMI/bspl20I
    nlaIV scrFI[dcM-]
      sau96I[dcM-][M.haeIII-]
        scrFI[dcM-] eco0109I/draII scrFI[dcM-]
        pspGI scrFI[M.hpall-] pspGI
        mval nciI pspGI mval nlaIII
        ecoRII[dcM-] haeIII/pall ecoRII[dcM-]
        dsav[dcM-] bspl286[M.haeIII-] xcmI
        ostNI mspI mval dsav[dcM-]
        bssKI[dcM-] bmyI ecoRII[dcM-] styI
        bsaJI hpall dsav[dcM-] ncoI
        sau96I[M.haeIII-] banII[M.haeIII-] bstNI dsal
        xcmI n-laIV apy-[dcM-] apaI bstNI bssKI[dcM-]
        styI haeIII/pa-I dsav bssKI[dcM-] btgI/bstDSI
        mwol mnli bsaJI bsaJ- haeIII/pall apyI[dcM+] bsaJI
        alul taqI mwol ecc0109I/draII bssKI mnli bsmI apyI[dcM+]
          301 ACAGCTTTCG AGGCTACCAA GGCCTCCCTG GGCACCCGGG CCTCTGCGC ATTCAGGAA ACCATGAAA CAATGGCAC AATGGACCA CTGGTCATGA
            TGTGCAAGC TCCGAIGETT CCGSGGGGAC CCGSTGGGCC GGGAGGACCG TAGGTCTCTT TGTACTCTTT GTTACCGTTG TTACTCGGT GACCACTACT
            4E S F R G Y Q G P P G P P G P F G I P G N H G N N G N N G A T G H E

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GSeq2dit, DNA4686 [Full], page 3

GSeqEdit, DRA44686 [Full], page 4

GSeqEdit, DNA44686 [Full], page 5

GSeqEdit, DNA44686 [Full], page 6

GSeqEdit, JNA44686 [Full], page 7

EXHIBIT A—PAGE 8

sau3AI
 mboI/ndeI-[dam-]
 dprI-[dar-]
 dprI-[dan+]
 alwI-[dan-]
 1401 CTTTCACCT TTCTTTTGA TCCACAAAT ACATTAAAC TCGAATTCA CATAATGC TAITTTAAG TCAATAGATT TTACCTATAA AGTGCTTGAC
 GAADCTGGGA AAGGAACI AGGTCTTTA TGTATTTTG AGACTTAAT GTATGTACG ATAAAATTC AGTTATCTAA AATGATATT TCACGACGTG
 foki
 bstF5I
 mnlI
 1501 CAGTAATGIG GTTGAATTG TGTGTAGTT CCCCACATC GCCCCCACT TCGGATGTG GGTGAGGAGG TTGAGGTTCA CTATTACAA AGTGTATATA
 CTCATTACAC CAACATIAA ACACATACAA GGGGTGTAG CGGGGTGTG AGCTACACC CCAGTCTCTC AACTCCAGT GATAATGTT TACAGTATT
 hincII/hindII
 nlaIII
 nspHI
 nspI
 mnlI bst4CI/hpyCH4III
 1601 TATCTCATG AGGTACATG CCAATAGATA TTCAAATGTT GCATGTGAC CAGAGGAGT TTATATCTGA AGACATACA CTATTATAA ATACCTTAGA
 ACACAGTATC TCCATGTAC GGTTACTAT AAGTTTACA CGTACACTG GTCTCCCTAA AATATAGACI TCTGTATGT GATAATATT TATGCAATCT

190- ATAFEG
TAF-TAC

EXHIBIT A—PAGE 10

```

> length: 1986

accI (GTNKAAC) :
acII (CGGC) :
aflIII (ACRYGT) :
ahaiII (TTYAA) :
alulI (AGCT) :
a_wI (GCATCNRN) :
apaI (GGGCC) :
apoI (RANITY) :
apyI (CONGG) :
aseI (ATTAAT) :
asnI (ATTAAT) :
aspEI (GWCWC) :
avaI (CYCGRG) :
avaII (GWCCT) :
banHI (GCATCC) :
batI (GGYACC) :
banII (GRGCYC) :
bbsI (GAAGACNNNNN) :
bbvI (GCAGC) :
b_zal (CTAG) :
bglI (GCCNNNNGGC) :
blpI (GCTNAGC) :
bmyI (GGGCHC) :
bpuI (CTGGAG) :
bpuI102 (GCTNAGC) :
bpuAI (GAAGACNNNNKY) :

1832
452 1815 1819 :870
77
1464
116 175 303 741 793 918 942 947 1356 1368 1393 1483 1863 1896
46 47 58 1419
338 628
27 1221 1444
111 327 345 354 434 1713
1683
1683
115
94 442 488
848
46
1149
115 338 628 1068
125 726 932 1095
173 458 818 1357 1894
53 795 911 1354 1827
34 340 1869
943 :394
:15 338 628 1368 1349 1376
:12
943 1394
125 726 932 1095

CSeqEdit, DNA4686 [Full], page 10

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EXHIBIT A—PAGE 11

```

bsaI (GGTCTCRNNNN) : 100 582
bsaJ (CCNNGG) : 9 95 317 326 327 362 434 488 489 842 1145 1873
bsaW (NCCGGSW) : 255
bse3I (GAGGAGNNNNNNNN) : 97 1167
bsgI (GTGCAG) : 4
bel1236I (CGCG) : 78 1820
bsiCI (TTCGAA) : 24
bsiEI (CGRYCG) : 1816
bsiIKAI (GNGCWC) : 115
bali (CCNNNNNNNGG) : 249 633 922 1544 1837
bsmA (GTCTC) : 100 136 245 295 582
bsnAI (GTCTC) : 100 136 245 295 582
bsmEI (GGGACNNNNNNNNNN) : 847
bsn (GAATGON) : 349 516
bsnFI (GCNGC) : 173 458 818 1357 1815 1818 1869 1894
bsp106 (ATCGAT) : 19
bsp120I (GGGCC) : 338 628
bsp1286 (GDGCHC) : 115 338 628 1068 1349 1378
bsp1407I (TGTACA) : 736
bspCN (CTCAGNNNNNNNNNN) : 130 142 944 964 1071 1100 1123
bspDI (ATCGAT) : 19
bspHI (TCATGA) : 395 610
bspK (ACCTGC) : 1177 1836
bsrBI (GAGCGG) : 450
bsrDI (GCAATGNN) : 829 992 1020
bsrGI (TGTACA) : 736
bsrI (ACTGGN) : 39 390 615 633 1252 1500
bsk (CCNGC) : 83 111 327 336 345 354 434 488 489 1713
bst4CI (ACNGI) : 556 723 1615 1729
bstAPI (GCANNNTGC) : 1351
  
```

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EXHIBIT A—PAGE 12

bsbI (TTCGAA) :	24
bsdSI (CCRYGG) :	362 842 1873
bs-EII (GGTNACC) :	429
bst25I (GGATG) :	680 769 806 1313 1553
bstNI (CCWGG) :	111 327 345 354 434 1713
bstUI (CGCG) :	78 1820
bstXI (CCANNNNTGG) :	104 1500
bs-YI (RGATC) :	46 57
btgI (CCRYGG) :	362 842 1873
bteI (GCAGTGN) :	574
cac8I (CCNNGC) :	194 794
cel-I (GCTNACC) :	943 1394
cfoI (GCCTC) :	835
cfrI (YGGCCR) :	32 41 1816 1867
clal (ATCGAT) :	19
csp6I (GTAC) :	701 737 1041 1613
dde-I (CTNAG) :	130 142 895 344 964 1071 1100 1123 1395 1695
dpnI (GATC) :	47 58 961 1419
dpnII (GATC) :	47 58 961 1419
dral (TTTAAA) :	1464
dralI (RGCCY) :	320 338 437 627 628
drcI (GACNNNNNGTC) :	72 1823
dsaI (CCRYGG) :	362 842 1873
dsav (CCNGC) :	83 111 327 336 345 354 434 488 489 1713
eaeI (YGGCCR) :	32 41 1816 1867
eagI (CGCCCG) :	1816
ec1136II (GAGCTC) :	115
ec-X- (CGCCCG) :	1816
eco57I (CTGAG) :	507 542 569 659 728 789 1269 1667
ecoNI (CTNNNNNAG) :	1837

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EXHIBIT C—PAGE 13

eco0109I (RGGNCCY) :	320 338 437 627 628
ecoRI (GAATTC) :	27 1444
ecoRI- (CONEG) :	111 327 345 354 434 1713
esp- (GCTNAGC) :	943 1394
fru4HI (CCNGC) :	173 458 818 1357 1815 1818 1869 1894
fru2II (CGCG) :	78 1820
foxI (GGATC) :	680 769 806 1313 1553
gsvI (CTGGAG) :	112
haeII (RGCGCY) :	834
haeIII (GGCC) :	35 42 321 331 339 439 465 629 1817 1868 1877
hgaI (GACGC) :	79 1174
hgiAI (GNGCWC) :	115
hhaI (GCGC) :	835
h-nPI (GCGC) :	835
hincII (GTYRAC) :	1645 1832
hind-I (GTYRAC) :	1645 1832
hindIII (AAGCTT) :	1862
hirfi (GATTC) :	22 138 157 243 494 877 1078 1308 1823 1830
hpaII (CGG) :	44 83 256 336 489
hpaI (GCTGA) :	411 429 655
hpy188I (TCNCA) :	141 509 551 762 963 1072 1101 1171 1311 1441 1551 1666
hpy188III (TCNNGA) :	52 227 395 610 1259 1563 1826
hpyCH4II- (ACNCT) :	556 723 1615 1729
hpyCH4V (CGCA) :	5 276 515 709 872 1019 1215 1640 1839 1893
maeI (CTAG) :	53 795 911 1354 1827
maeIII (GTNAC) :	430 956
nboI (GATC) :	47 58 961 1419
nboI- (GAAGA) :	126 568 652 727 932 1075 1096 1669
ncrI (CGRYCC) :	1816
nlwI (ACGCGT) :	77

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EXHIBIT C—PAGE 14

```

mly-(GAGTCNNNNN):
mli(CCTC):
138 243 1823 1830
9 50 62 68 97 144 170 209 259 310 342 441 445 678 687 810 966 982
169 1382 1567 1573 1610 1653
974 1241 1246 1277 1434 1465 1584 1684 1781
675
mli(TTAA):
mli(CAYNNKRTG):
44 83 256 336 489
mli(CCGG):
111 327 345 354 434 1713
mva-(CCWGG):
78 1820
mvi(CGCG):
34 108 164 304 313 340 452 516 525 733 1351 1360 1869
83 336 488 489
mli(SCYNNNNNCC):
mli(CCSGG):
362 842 1873
mli(CCATGG):
47 58 961 1419
mli(GATC):
794
mli(GCTAGC):
161 239 291 363 396 462 521 611 665 675 734 780 843 1642 1874
mli(CATG):
46 321 338 384 402 437 465 627 628 629 847 1149 1262
mli(GGNCC):
1815
mli(GCGCGCGC):
733 1641
mli(RCATGY):
733 1641
mli(RCATGY):
442
mli(CCTCGAG):
33 42 321 331 339 439 465 629 1817 1868 1877
mli(GGCC):
138 243 1823 1830
mli(GAGTCNNNN):
1293 1899
mli(TTATAA):
468
mli(CCCGGG):
111 327 345 354 434 1713
mli(CWGC):
338 628
mli(GGGCCC):
275 1838
mli(CTGCAG):
395 610
mli(TCATGA):
53 795 911 1354 1627
mli(CTAG):
701 737 1041 1613
mli(GTAC):
115
mli(GAGCTC):

```

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EXHIBIT C—PAGE 15

salI (GTCGAC) : 1832
 sau3AI (GATC) : 47 58 961 1419
 sau36I (GCNCC) : 321 330 338 339 438 465 628 629 848 1877
 seeI (TAGGGATACAGGGTAAT) : 1844
 scrFI (CNGG) : 83 111 327 336 345 354 434 488 489 1713
 sfaNI (GCAAC) : 87 1127
 sfcI (CTRYAG) : 275 299 1035 1838
 sfii (GGCCNNNNNGGCC) : 33 1868
 sfuI (TTCGAA) : 24
 smaI (CCCGGG) : 488
 smI (CTYRAG) : 442
 spp (AATATT) : 1187
 sat (GAGCTC) : 115
 styI (CCWGG) : 317 362 842 1145 1873
 taqI (TCGA) : 20 25 64 70 308 443 1833
 tfil (GATC) : 22 157 494 877 1078 1308
 thaI (CGCG) : 78 1820
 tliI (CTCGAG) : 442
 trt9 (TTAA) : 974 1241 1246 1277 1434 1465 1584 1684 1781
 tseI (GCGC) : 173 458 818 1357 1894
 tsp45I (GTSAC) : 430
 tsp503I (AATT) : 28 1009 1061 1163 1222 1243 1372 1445 1516
 tspRI (NNCAGTGNN) : 38 389 557 575 1616
 vspI (ATTAAT) : 1683
 xbaI (TCTAGA) : 52 1826
 xcmI (CCANNNNNNNTTGG) : 317 362
 xhoI (CTCGAG) : 442
 xhoII (RGATCY) : 46 57
 xbaI (CCCGGG) : 488
 xmaII (CGGCGG) : 1816

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Filed : **December 26, 2001**

EXHIBIT B

(4 pages; page 21-24)

Appl. No. : 10/036,041
 Filed : December 26, 2001

EXHIBIT B—PAGE 1

Protein Request FILED

NEW REQUEST SEARCH PRODUCTION HISTORY

PRODUCTION HISTORY UNQ 753 Search

	Order Protein	Trans-Fac DNA	Exp System	Formal Name	PRO	Protein Reader	EXP	PUR	PUR Status	PUR Warning	Culture Vols
1.	Order	DNA84665	E Coli	Human CTRP3 Poly-His	PRO1825		EXP2247	PUR1009	Done		
2.	Order	DNA84665	E Coli	Human CTRP3 Poly-His	PRO1825		EXP2247	PUR4414	Done		
3.	Order	DNA87982	Baculovirus	Human CTRP3 IgG	PRO1855		EXP2255	PUR1039	Drop		1
4.	Order	DNA102368	Mammalian Stable	Human CTRP3 Poly-His	PRO4365		EXP2794				

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 Filed : December 26, 2001

EXHIBIT B—PAGE 2

GENE GENES		SITE MAP		Additional f							
GENE VIEWER GENE FAM MAP GENE SUB		<input type="button" value="SELECT"/> <input type="button" value="Go"/>									
SEQUENCE VIEWER DNA SRC RNA LIB FLA OLI											
ASSAY VIEWER PRO DOM EXP PUR LOT ASY											
EXP2247		VIEW DNA		View F. Map. p							
Gene Info		UNQ753 PRO 1825 Human CTRP3 Poly-His TFDNA84665 FLDNA44686									
EXP Lab Name											
DNA Lab Name		pE44686-1									
Protein Request ID											
System		E Coli									
Expctd. Harvest Date											
Control											
Fermentation Run ID											
Cell Line											
Expression Media											
Growth Factors											
Supplements											
Warning											
Gels											
Expressed		FALSE									
Comments											
Status											
Date Entered		November 9, 1998									
Date Canceled											
Scientist		Dan Yansura									
Notebook		0 -									
Protein Lots		<table border="1"> <thead> <tr> <th>PUR(s)</th> <th></th> </tr> </thead> <tbody> <tr> <td>PUR1009</td> <td>11/16/98</td> </tr> <tr> <td>PUR4414</td> <td>11/16/01</td> </tr> </tbody> </table>				PUR(s)		PUR1009	11/16/98	PUR4414	11/16/01
PUR(s)											
PUR1009	11/16/98										
PUR4414	11/16/01										
Date Complete											
Cancel Reason											
Status											
Storage Location											
LOT2552 PIN1308-1											
ASY DNA DOM EXP FAM FLS LIB LOT MAP OLI PRB PRO PUR RNA SRC UNQ XPT YST Assay Viewer Sequence Viewer Gene Viewer GenesGenes SAGE											
GenesGenes Feedback											

Appl. No. : 10/036,041
 Filed : December 26, 2001

EXHIBIT B—PAGE 3

GENEN GENES		SITEMAP		Additional F	
GENEVIEWER	GENE	FAM	MAP	GENEHUD	
SEQUENCEVIEWER	DNA	SRC	RNA	LIP	PLS
ASSAYVIEWER	PRO	DOM	EXP	PUR	LOT
SELECT					Go
EXP2255					
View Details View Protein Update Record					
Gene Info	UNQ753 PRO 1855 Human CTRP3 IgG TFDNA87982 FLDNA44686				
EXP Lab Name	44686.221 JSF				
DNA Lab Name	44686.221JSF Hit				
Protein Request ID					
System	Baculovirus				
Virus Status					
Export Virus Harvest Date	Virus Harvest Date				
Export Harvest Date	Harvest Date				
Control	Cell Path				
Fermentation Run ID	Cell Banking ID				
Cell Line	E. Coli Strain				
Expression Media	Days Incubated 3				
Growth Factors	Transfection Date				
Supplements	Transfer Date				
Warning	Transfer Volume 1liter(s)				
Gels	PUB(S) PUR1039 11/23/98				
Expressed	TRUE				
Comments					
Status					
Date Entered	November 9, 1998		Date Complete		
Date Canceled			Cancel Reason		
Scientist	Bethanne Deuel		Status		
Notebook	0 -		Storage Location		
Protein Lots					
No LOTs for this EXPression					

ASY | DNA | DOM | EXP | FAM | ELS | LB | LOT | MAP | OLI | PRB | PRO | PUR | RNA | SRC | UNO | XPI | YSI
 Assay Viewer | Sequence Viewer | Gene Viewer | GenenGenes | SAGE

GenenGenes Feedback

Appl. No. : 10/036,041
Filed : December 26, 2001

EXHIBIT B—PAGE 4

GENENGENES		SITE MAP		Additional f	
GENE VIEWER		GENE FAM MAP GENENUB		New Update	
SEQUENCE VIEWER		SRC RNA LIB FLS LOT		SELECT	
ASSAY VIEWER		PRB DOM EXP PUR LOT ASY		Go	
EXP2794		VIEW DNA		Copy Protein Update Record	
Gene Info		UNQ753 PRO 4365 Human CTRP3 Poly-His TFDNA102368 FLDNA44686			
EXP Lab Name		sst.44686.H8			
DNA Lab Name		sst.44686.H8			
Protein Request ID					
System		Mammalian Stable			
Expctd. Harvest Date		Harvest Date			
Comp		Cell Pallet			
Fermentation Run ID		Cell Banking ID			
Cell Line		CHO			
Expression Media		E. coli Supernatant			
Growth Factors		# Days Incubated			
Supplements		Transfection Date			
Warning		Transfer Date			
Goals		Transfer Volume			
Gels		GEL180			
Expressed		FALSE			
Comments		no band on western			
Status					
Date Entered		February 16, 1999		Date Complete	
Date Canceled				Cancel Reason	
Scientist		Lhney Lewis-Steiner		Status	
Notebook		30966 - 55		Drop	
Protein Lots				Storage Location	
				Crowley Lab	
No LOTs for this EXPression					
ASY DNA DOM EXP FAM FLS LIB LOT MAP OLI PRB PRO PUR RNA SRC UNQ XPT YST					
Assay Viewer Sequence Viewer Gene Viewer GenenGenes SAGE					
GenenGenes Feedback					

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EXHIBIT C

(2 pages; pages 26-27)

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GENEN GENES		SITEMAP		Additional F	
GENEVIEWER GENE FAM MAP GENEVIEW SEQUENCEVIEWER DNA SRC RNA UB FLS OLI ASSAYVIEWER SRC DOM EXP PUR LOT ASY		SELECT <input type="text"/> Go			
PUR1009		VIEW DNA		VIEW Protein	
Gene Info: UNQ753 PRO 1825 Human CTRP3 Poly-His TF DNA84665 FL DNA44686 Protein Request ID: DNA Lab Name: pE44686-1 PUR Name: Export PUR Date: EXP: EXP2247 Mass Spec: Warning: Endotoxin Level: 6.24 EU/ml LPS Molar Mass (g/mol): Ed Coef. (mg/ml) (cm): Protein (mg/ml): Reduced SDS MW: Approx. 31, 55 kDa Theoretical MW of ORF: 26723.56 Gel Score: Buffer: 1 mM HCl / 0.15 M NaCl / 4% mannitol Comments:		Protein Form Name: Control: PUR Date: July 13, 1999 No Sequence report available Sequence Info: GELS: GEL461 AA Analysis (mg/ml): OD 280: Endotoxin Units/mg Protein: Purity ppm:			
Status: Date Entered: November 16, 1998 Yield Concentration: 4752 nM Date Canceled: Scientist: Corpuz, Racquel Delivered To: Notebook: 32647-8- Protein Lots:		PUR Done Date: Yield Volume: 4.5ml Cancel Reason: Status: Done Origin: Storage Location:			
OT2552		PIN1308-1		1009	
ASY DNA DOM EXP FAM FLS UB LOT MAP OLI PRS PRO PUR RNA SRC UNQ XPT YST Assay Viewer Sequence Viewer Gene Viewer GenenGenes SAGE					

GenenGenes Feedback

EXHIBIT C—PAGE 2

http://researchproject.jp/jap/11A_jap?P1AID=1002

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EXHIBIT D

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<u>ASY64</u>	Retired	11/4/99	12/14/99	Proinflammatory/PMN infiltrate
<u>ASY67</u>	Retired	9/2/99	9/28/99	MLR - Inhibitory
<u>ASY68</u>	On Hold	10/18/99	11/8/99	Hu Venous Endothelial Cell Ca Flux Assay
<u>ASY74</u>	Retired	9/28/99	11/8/99	Inhibition of Heart Neonatal Hypertrophy Induced by LIF+ET-1
<u>ASY75</u>	Retired	9/28/99	11/8/99	Enhancement of Heart Neonatal Hypertrophy Induced by LIF+
<u>ASY100</u>	Running	8/20/99		Endotoxin Level (LAL)
<u>ASY103</u>	Running	9/1/99		Protein Gel Analysis
<u>ASY106</u>	Retired	10/2/99	12/1/99	Glucose and FFA uptake in Differentiated Skeletal Muscle
<u>ASY106</u>	Retired	12/3/99	1/4/00	Glucose and FFA uptake in Differentiated Skeletal Muscle
<u>ASY107</u>	Running	11/16/99	1/4/00	Fetal hemoglobin induction in an erythroblastic cell line
<u>ASY110</u>	Retired	10/22/99	11/10/99	Chondrocytes Re-differentiation Assay
<u>ASY110</u>	Retired	12/1/99	4/5/00	Chondrocytes Re-differentiation Assay
<u>ASY110</u>	Retired	12/15/99	3/27/00	Chondrocytes Re-differentiation Assay
<u>ASY110</u>	Retired	5/2/00	8/18/00	Chondrocytes Re-differentiation Assay
<u>ASY110</u>	Retired	5/16/00	8/18/00	Chondrocytes Re-differentiation Assay
<u>ASY111</u>	Retired	10/22/99	11/10/99	Chondrocytes Proliferation Assay
<u>ASY111</u>	Retired	12/1/99	4/5/00	Chondrocyte Proliferation Assay
<u>ASY111</u>	Retired	12/15/99	3/27/00	Chondrocyte Proliferation Assay
<u>ASY111</u>	Retired	5/2/00	8/18/00	Chondrocyte Proliferation Assay
<u>ASY111</u>	Retired	5/16/00	8/18/00	Chondrocyte Proliferation Assay
<u>ASY118</u>	Retired	1/12/00	2/1/00	Inhibition of A -Peptide Binding to Factor VIIA
<u>ASY119</u>	Retired	1/12/00	2/1/00	Inhibition of A -Peptide Binding to Factor VIIIE
<u>ASY128</u>	Retired	5/5/00	6/20/00	Cytokine Release in Human Whole Blood
<u>ASY129</u>	Retired	5/16/00	8/18/00	Chondrocytes re-differentiation by Fluorescence
<u>ASY130</u>	Retired	5/16/00	8/18/00	Chondrocytes Proliferation by fluorescence
<u>ASY132</u>	Retired	6/23/00	8/7/00	Activation of NFkB
<u>ASY134</u>	Retired	10/13/00	11/30/00	Activatin of NFkB [Luciferase]
<u>ASY134</u>	Retired	12/5/00	1/22/01	Activatin of NFkB [Luciferase]
<u>ASY135</u>	Retired	9/12/00	10/19/00	Induction of E-selectin
<u>ASY138</u>	Running	2/23/01	4/9/01	Normal Human Iliac Artery Endothelial cells

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ASY139	Running	2/23/01	4/9/01	Pooled Human Umbilical vein Endothelial cells
ASY140	Running	2/23/01	4/9/01	Coronary artery Smooth Muscle cells
ASY141	Running	2/23/01	4/9/01	Normal human Dermal Fibroblast Proliferation
ASY142	Running	2/14/01	3/26/01	NF-kappa B Inhibition Assay
ASY142	Running	3/8/01	3/26/01	NF-kappa B Inhibition Assay
ASY146	Running	7/19/01	8/3/01	Human Microvascular Endothelial Cell Proliferation Assay
ASY162	Running	11/16/99	9/5/00	NCI Oncology Screen-1
ASY165	Running	8/1/01	9/19/01	CREB
ASY165	Running	9/19/01	9/24/01	CREB
ASY170	Piloting	11/9/01	11/16/01	NHEK proliferation assay
ASY174	Piloting	3/12/02	4/3/02	Bovine Retinal M Endothelial
ASY174	Piloting	4/4/02		Bovine Retinal M Endothelial
ASY174	Piloting	5/17/02		Bovine Retinal M Endothelial
ASY174	Piloting	11/20/02		Bovine Retinal M Endothelial
ASY175	Running	12/21/01		Neuronal Differentiation using Rinat technology
ASY175	Running	5/30/02		Neuronal Differentiation using Rinat technology
ASY176	Piloting	5/31/02		Hemoglobin Assay
ASY176	Piloting	7/16/02		Hemoglobin Assay
ASY177	Piloting	4/22/03	8/18/03	fibroblast migration assay
ASY178	Running	1/23/03		Proliferation of Fibroblasts
ASY180	Running	3/11/03	3/25/03	Mouse Keratinocyte Assay
ASY181	Running	3/6/03	3/13/03	Human Mammary Epithelial Cell Assay

ASY | RNA | DNA | EXP | FISH | ILS | LIB | LOT | MAP | OL | FRB | PRQ | PUR | RNA | SEC | MNQ | XPT | YST
 Assay Viewer | Sequence Viewer | Gene Viewer | GeneGates | SAGE

Genentech Feedback

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EXHIBIT E

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Getting the Feedback

EXHIBIT E—PAGE 2

GenomGenes Feedback